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US 20060054390 A1	US- PGPUB	20060316	8	LADDER SECURING DEVICE	182/107		Ray; Stephen Win
US 20060048780 A1	US- PGPUB	20060309	46	Dry powder dispersing apparatus and methods for their use	128/203.15		Burr; John D. et al.
US 20060040584 A1	US- PGPUB	20060223		Method and apparatus for grinding	451/5	451/178; 451/53; 451/541; 451/7	Ray; Charles et al.
US 20050159756 A1	US- PGPUB	20050721		Tapered bone fusion cages or blocks, implantation means and method	606/87	606/90	Ray, Charles D.
US 20050155285 A1	US- PGPUB	20050721	21	Integrated tree root and storm water system	47/32.7		Urban, James et al.
US 20050148052 A1	US- PGPUB	20050707		Integration of at least two processes to re-use acid	435/85	435/144; 435/289.1	Ray, Charles David et al.
US 20030209243 A1	US- PGPUB	20031113		Dry powder dispersing apparatus and methods for their use	128/203.15	128/203.21	Burr, John D. et al.
US 20020183848 A1	US- PGPUB	20021205		Prosthetic spinal disc nucleus having a shape change characteristic	623/17.12		Ray, Charles D. et al.
US 20020159863 A1	US- PGPUB	20021031		Drywall panel carrier attachable to lift platform	414/11	248/228.6	Ray, Charles T.
US 20020017297 A1	US- PGPUB	20020214		Dry powder dispersing apparatus and methods for their use	128/203.15		Burr, John D. et al.
US 20010020185 A1	US- PGPUB	20010906		Threaded fusion cage anchoring device and method	623/17.11		Ray, Charles D.
US 7101136 B1	USPAT	20060905		Drywall panel carrier	414/11	414/10	Ray; Charles T. et al.
US 7080480 B2	USPAT	20060725		Integrated tree root and storm water	47/48.5	210/170; 405/43;	Urban; James et al.

			system		405/53; 47/1.01F; 47/32.7; 47/79	
US 7058027 B1	USPAT	20060606	Systems and methods for asynchronous transfer mode and internet protocol	370/310.1	370/352; 370/468	Alessi; George H. et al.
US 6901929 B2	USPAT	20050607	Dry powder dispersing apparatus and methods for their use	128/203.15	128/203.21	Burr; John D. et al.
US 6852095 B1	USPAT	20050208	Interbody device and method for treatment of osteoporotic vertebral collapse	604/93.01	604/96.01; 606/93	Ray; Charles D.
US 6602291 B1	USPAT	20030805	Prosthetic spinal disc nucleus having a shape change characteristic	623/17.11	623/16.11	Ray; Charles D. et al.
US 6599292 B1	USPAT	20030729	Distraction device for vertebral disc procedures and method of distracting	606/90	600/219; 600/235	Ray; Charles D.
US 6582431 B1	USPAT	20030624	Expandable non- threaded spinal fusion device	606/61	623/17.16	Ray; Charles Dean
US 6546929 B2	USPAT	20030415	Dry powder dispersing apparatus and methods for their use	128/203.15	128/203.21	Burr; John D. et al.
US 6511275 B2	USPAT	20030128	Drywall panel carrier attachable to lift platform	414/11	182/141; 211/50	Ray; Charles T.
US 6410350 B1	USPAT	20020625	Detecting die speed variations	438/14	438/15; 438/18	Fuselier; Mark Brandon et al.
US 6306170 B1	USPAT	20011023	Threaded fusion cage anchoring device and method	623/17.11	606/61; 623/17.16	Ray; Charles D.

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US 6283984	USPAT	20010904	Dural closing	606/210	606/205;	Ray; Charles
B1			surgical forceps		606/207	D.
US 6257233 B1	USPAT	20010710	Dry powder dispersing apparatus and methods for their use	128/203.15	128/203.21	Burr; John D. et al.
US 6167388 A	USPAT	20001226	System and method for the selection of heating equipment	705/400	700/90; 705/29	Ray; Charles E.
US 6132465 A	USPAT	20001017	Tapered prosthetic spinal disc nucleus	623/17.16		Ray; Charles D. et al.
US 6123606 A	USPAT	20000926	Method and apparatus for grinding	451/53	451/178; 451/449; 451/450; 451/488	Hill; Christopher P R et al.
US 6113639 A	USPAT	20000905	Trial implant and trial implant kit for evaluating an intradiscal space	623/17.16		Ray; Charles D. et al.
US 6083225 A	USPAT	20000704	Method and instrumentation for implant insertion	606/61	606/99; 623/17.11	Winslow; Charles J. et al.
US D426638 S	USPAT	20000613	Glucose sensor buttons	D24/169		Ray; Charles Allen et al.
US D424696 S	USPAT	20000509	Glucose sensor	D24/169		Ray; Charles Allen et al.
US 6042582 A	USPAT	20000328	Instrumentation and method for facilitating insertion of spinal implant	606/61		Ray; Charles D.
US 6022376 A	USPAT	20000208	Percutaneous prosthetic spinal disc nucleus and method of manufacture	623/17.16	623/17.12	Assell; Robert L. et al.
US 5824093 A	USPAT	19981020	Prosthetic spinal disc nucleus	623/17.16		Ray; Charles D. et al.
US 5773443 A	USPAT	19980630	Triazole antifungal agents	514/256		Ray; Stephen J. et al.
US 5674295 A	USPAT	19971007	Prosthetic spinal disc nucleus	623/17.12		Ray; Charles D. et al.
US 5665111 A	USPAT	19970909	Method for anchoring a surgical suture to bone	606/232	128/898; 606/73; 606/83	Ray; Charles D. et al.
US 5649945	USPAT	19970722	Spinal anulus cutter	606/167	606/184	Ray; Charles

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Α						D. et al.
US 5567817 A	USPAT	19961022	Triazole antifungal agents	544/333		Ray; Stephen J. et al.
US 5562736 A	USPAT	19961008	Method for surgical implantation of a prosthetic spinal disc nucleus	606/61	606/184; 606/99; 623/17.16	Ray; Charles D. et al.
US 5517888 A	USPAT	19960521	Cutting apparatus	83/140	83/620	Ray; Stephen
US 5278175 A	USPAT	19940111	Triazole antifungal agents	514/340	546/272.4	Ray; Stephen J. et al.
US 5140169 A	USPAT	19920818	Long path flow cell resistant to corrosive environments for fiber optic spectroscopy	250/576	250/227.11; 250/227.25; 356/246	Evens; F. Monte et al.
US D323712 S	USPAT	19920204	Electronic sphygmomanometer	D24/165		Foster, Jr.; Werner R. et al.
US 5078493 A	USPAT	19920107	Flow cell resistant to corrosive environments for fiber optic spectroscopy	356/246	250/343; 250/576	Evens; F. Monte et al.
US 5055104 A	USPAT	19911008	Surgically implanting threaded fusion cages between adjacent low-back vertebrae by an anterior approach	606/61	623/17.16	Ray; Charles D.
US 5026373 A	USPAT	19910625	Surgical method and apparatus for fusing adjacent bone structures	606/61	606/86; 623/17.11	Ray; Charles D. et al.
US 5000163 A	USPAT	19910319	Retraction device	600/233	24/490; 403/131; 600/230; 600/234	Ray; Charles D. et al.
US 4961740 A	USPAT	19901009	V-thread fusion cage and method of fusing a bone joint	606/61	606/86; 623/16.11	Ray; Charles D. et al.
US 4944744 A	USPAT	19900731	Bone impactors	606/79	606/105; 606/84; 606/90	Ray; Charles D.

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US 4909845	USPAT	19900320	Mine sealant	106/18.12		Ray; Charles
Α			composition			E. et al.
US 4904260 A	USPAT	19900227	Prosthetic disc containing therapeutic material	623/17.12	424/424; 424/DIG.7; 604/131; 604/891.1	Ray; Charles D. et al.
US 4885294 A	USPAT	19891205	2-aryl-3- (substituted piperazinyl)-1-(1H- 1,2,4- triazolyl)propanol- 2-ol antifungal agents	514/227.8	514/228.2; 514/233.8; 514/235.2; 514/236.2; 514/253.06; 514/254.02; 514/254.05; 544/363; 544/364; 544/366; 544/368; 544/368; 544/58.6	Ray; Stephen J. et al.
US 4824089 A	USPAT	19890425	Retractable buttocks support for operations in the prone sitting position	5/648	5/621	Dickhudt; Eugene A. et al.
US 4805599 A	USPAT	19890221	Framework for supporting surgical instruments at a surgical wound	600/233	128/869; 600/234	Ray; Charles D.
US 4800875 A	USPAT	19890131	Surgical funnel and method of using	606/92	141/331; 193/2R	Ray; Charles D.
US 4790481 A	USPAT	19881213	Pop-up irrigation sprinkler	239/204	239/590; 239/600	Ray; Charles A. et al.
US 4772287 A	USPAT	19880920	Prosthetic disc and method of implanting	623/17.12	128/DIG.20; 606/53	Ray; Charles D. et al.
US 4757983 A	USPAT	19880719	Head and chin for face-down operations	5/637	5/640	Ray; Charles D. et al.
US 4738248 A	USPAT	19880419	Surgical retractors	600/206	600/210	Ray; Charles D.
US 4726121 A	USPAT	19880223	Surgical caliper	33/806	33/512	Ray; Charles D. et al.
US 4662619 A	USPAT	19870505	Kneeling attachment for operations in the	5/624		Ray; Charles D. et al.

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US 4657002 A	USPAT	19870414	Bone impactors	606/79		Ray; Charles D.
US 4654352 A	USPAT	19870331	Method for treating diarrhea with benzothiophene derivatives	514/324	514/422; 514/443; 546/202; 548/525; 549/51; 549/57	Ray; Stephen J.
US 4637548 A	USPAT	19870120	Releasable locking assembly for sprinkler valve units	239/201	285/321	Ray; Charles A. et al.
US 4610243 A	USPAT	19860909	Malleable force- fulcrum retractor	600/206	600/217	Ray; Charles D.
US 4328813 A	USPAT	19820511	Brain lead anchoring system	607/139		Ray; Charles D.
US 4323990 A	USPAT	19820406	Seismic exploration system	367/21	367/60; 367/74; 702/14	Goode; James W. et al.
US 4316579 A	USPAT	19820223	Multi-purpose seal for pop-up sprinkler	239/123	239/205; 239/206; 277/550; 277/558; 277/562; 285/110; 285/302	Ray; Charles A. et al.
US 4276882 A	USPAT	19810707	Lead anchoring device	607/9	128/DIG.26; 607/116	Dickhudt; Eugene A. et al.
US 4257446 A	USPAT	19810324	Fluid flow shut-off system	137/368	137/371; 251/8	Ray; Charles W.
US 4226259 A	USPAT	19801007	Regulator module	137/269	137/489; 137/492.5; 251/30.02	Szekely; Fred J. et al.
US 4211955 A	USPAT	19800708	Solid state lamp	315/53	313/500; 313/512; 315/185R; 315/205; 315/307; 315/312; 362/800	Ray; Stephen W.
US 4176873 A	USPAT	19791204	Camper top tent assembly	296/156	296/210	Barr; Dwight L. et al.
US 4153067 A	USPAT	19790508	Method and apparatus for	137/15.12	138/92; 138/94;	Ray; Charles W.

			providing removable Service to connections to a high pressure main		138/97; 285/3; 29/402.19	
US 4027616 A	USPAT	19770607	Protection means for depth control device	114/244	367/17; 367/20	Guenther; Robert O. et al.
US 4016531 A	USPAT	19770405	System for recording seismic reflection signals in serial-by-trace format	367/74	367/21	Cook; Thomas W. et al.
US 3830309 A	USPAT	19740820	FIRE EXTINGUISHING APPARATUS	169/65	169/14; 169/70; 169/9; 222/94	Ray; Charles A.
US 3773067 A	USPAT	19731120	APPARATUS FOR EFFECTING OPERATIONS ON A FITTING ON A HIGH PRESSURE GAS MAIN	137/318		Ray; Charles William
US 3739856 A	USPAT	19730619	AERATOR TYPE ATTACHMENT STRUCTURE	172/21	172/120; 172/42; 172/532; 172/536; 172/766; 56/256	Ray; Charles A.
US 3674055 A	USPAT	19720704	SEALING CONSTRUCTION FOR GAS MAINS AND THE LIKE	138/89	126/116B; 138/92; 220/233	Ray; Charles W.
US 3476553 A	USPAT	19691104	PRECIPITATE FLOTATION PROCESS [TEXT AVAILABLE IN USOCR DATABASE]	75/429	426/26; 75/430; 75/431	RAY CHARLES L et al.
US 3468667 A	USPAT	19690923	COATED DUST FREE PHOSPHATE FEED SUPPLEMENT [TEXT AVAILABLE IN USOCR	426/97	426/546; 426/648; 426/807; 426/99	RAY CHARLES L et al.

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US 3457922 A	USPAT	19690729	STEREOTAXIC SURGICAL INSTRUMENT AND METHOD [TEXT AVAILABLE IN USOCR DATABASE]	606/130	378/162; 606/129	RAY CHARLES D
US 3426896 A	USPAT	19690211	FLOTATION OF BULK CONCENTRATES OF MOLYBDENUM AND COPPER SULFIDE MINERALS AND SEPARATION THEREOF [TEXT AVAILABLE IN USOCR DATABASE]	209/167	423/26	RAY CHARLES L et al.
US 3425550 A	USPAT	19690204	FLOTATION SEPARATION OF METALLIC SULFIDE ORES [TEXT AVAILABLE IN USOCR DATABASE]	209/166	209/901	RAY CHARLES L et al.
US 3414128 A	USPAT	19681203	Nitrogenous material fractions obtained from gilsonite in froth flotation [TEXT AVAILABLE IN USOCR DATABASE]	209/167		BAARSON ROBERT E et al.
US 3410559 A	USPAT	19681112	Airborne target with infrared source [TEXT AVAILABLE IN USOCR DATABASE]		250/493.1; 431/328; 431/347; 431/354	MILLER JR FELDER A et al.
US 3404777 A	USPAT	19681008	Froth flotation with secondary-alkyl	209/166		RAY CHARLES L

			primary amines [TEXT AVAILABLE IN USOCR DATABASE]			et al.
US 3370704 A	USPAT	19680227	Metallic sulfide flotation process [TEXT AVAILABLE IN USOCR DATABASE]	209/166	252/61	BAARSON ROBERT E et al.
US 3265211 A	USPAT	19660809	Froth flotation with an amine composition [TEXT AVAILABLE IN USOCR DATABASE]	209/166	106/287.25; 252/61	RAY CHARLES L et al.
US 3165465 A	USPAT	19650112	Flocculation and settling of liquid suspensions of finely-divided minerals [TEXT AVAILABLE IN USOCR DATABASE]	210/727	209/5	RAY CHARLES L et al.
US 3098817 A	USPAT	19630723	Phosphate ore flotation process [TEXT AVAILABLE IN USOCR DATABASE]	209/166	209/167	BAARSON ROBERT E et al.
US 2671153 A	USPAT	19540302	Electric control device and electrolytic fluid therefor [TEXT AVAILABLE IN USOCR DATABASE]	338/80	338/114; 338/222; 338/324; 369/150	RAY CHARLES H et al.
US 2636057 A	USPAT	19530421	Dehydration of alcohols to olefins [TEXT AVAILABLE IN USOCR DATABASE]	585/640	502/355	CUTCHER HASKELL W et al.
US 2618248 A	USPAT	19521118	Liquid level indicator [TEXT	123/41.15	340/620; 73/304R	LINDBERG JR JOHN E

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US 2606487 A	USPAT	19520812	Load and depth governor for plows [TEXT AVAILABLE IN USOCR DATABASE]	172/238	172/404; 172/406; 172/678; 280/462	PREISING WILLIAM J et al.
US 2582162 A	USPAT	19520108	Venetian blind [TEXT AVAILABLE IN USOCR DATABASE]	160/173R		RAY CHARLES S et al.
US 2574801 A	USPAT	19511113	Power line service restorer [TEXT AVAILABLE IN USOCR DATABASE]	335/18	200/308; 335/191; 335/26; 361/71; 74/97.1	THOMPSON JOSEPH S et al.
US 2565664 A	USPAT	19510828	Automatic load control for disk harrows [TEXT AVAILABLE IN USOCR DATABASE]	172/571	172/595; 172/605	RAY CHARLES T et al.
US 2548079 A	USPAT	19510410	Circuit isolating air break switch [TEXT . AVAILABLE IN USOCR DATABASE]	335/30	200/318	THOMPSON JOSEPH S et al.
US 2548060 A	USPAT	19510410	Electromagnetic operating and control system [TEXT AVAILABLE IN USOCR DATABASE]	361/102	335/12	RAY CHARLES R
US 2494963 A	USPAT	19500117	Hand grip tool for making and applying wire hose clamps [TEXT AVAILABLE IN USOCR DATABASE]	81/9.3	140/123.5; 72/409.01	RAY CHARLES W
US 2358282	USPAT	19440912	Draft gear [TEXT	172/239	172/473;	RAY

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US 2358280 A	USPAT	19440912	Tractor planter attachment [TEXT AVAILABLE IN USOCR DATABASE]	111/63		RAY CHARLES T
US 2357849 A	USPAT	19440912	Tractor two-row planter attachment [TEXT AVAILABLE IN USOCR DATABASE]	111/59	172/298; 172/387	RAY CHARLES T
US 2357848 A	USPAT	19440912	Tractor lister attachment [TEXT AVAILABLE IN USOCR DATABASE]	172/473	111/59; 172/195; 172/474; 172/501; 172/506	RAY CHARLES T
US 2357847 A	USPAT	19440912	Tractor attachment [TEXT AVAILABLE IN USOCR DATABASE]	172/230	172/144; 172/473; 172/501; 172/506	RAY CHARLES T
US 2311714 A	USPAT	19430223	Reclosing circuit breaker [TEXT AVAILABLE IN USOCR DATABASE]	335/22	335/32; 335/34; 361/59; 361/75	THOMPSON JOSEPH S et al.
US 2286872 A	USPAT	19420616	Mower [TEXT AVAILABLE IN USOCR DATABASE]	56/272		RAY CHARLES T
US 2225393 A	USPAT		Tractor attachment [TEXT AVAILABLE IN USOCR DATABASE]	172/273	172/274; 172/462; 172/834; 280/481	RAY CHARLES T
US 2185520 A	USPAT	19400102	Lister plow [TEXT AVAILABLE IN	172/721		RAY CHARLES J

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US 2096763 A	USPAT	19371026	Solenoid construction [TEXT AVAILABLE IN USOCR DATABASE]	335/245	251/129.15; 335/249; 335/261	RAY WILLIAM A et al.
US 2063852 A	USPAT	19361208	Tillage implement [TEXT AVAILABLE IN USOCR DATABASE]	172/128	111/25	RAY CHARLES T
US 2063851 A	USPAT	19361208	Tillage implement [TEXT AVAILABLE IN USOCR DATABASE]	172/273	172/274; 172/304; 172/500; 56/249	RAY CHARLES T
US 2063051 A	USPAT	19361208	Tillage implement [TEXT AVAILABLE IN USOCR DATABASE]	172/273	172/274; 172/304; 172/485; 172/500	RAY CHARLES T
US 2051896 A	USPAT	19360825	Farm tractor [TEXT AVAILABLE IN USOCR DATABASE]	172/493		RAY CHARLES T
US 2024778 A	USPAT	19351217	Seed planter [TEXT AVAILABLE IN USOCR DATABASE]	111/62		RAY CHARLES T
US 1933515 A	USPAT	19331031	Seed planter [TEXT AVAILABLE IN USOCR DATABASE]	111/51	111/70	RAY CHARLES T
US 1921480 A	USPAT	19330808	Tillage implement [TEXT AVAILABLE IN USOCR DATABASE]	172/310	172/578; 172/679; 172/776	RAY CHARLES T
US 1906766 A	USPAT	19330502	Street sweeping machine [TEXT AVAILABLE IN USOCR DATABASE]	15/84	15/179; 15/198	RAY CHARLES H
US 1885763 A	USPAT	19321101	Tillage implement [TEXT	172/312	172/318; 172/321;	RAY CHARLES T

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US 1885376 A	USPAT	19321101	Traction wheel [TEXT AVAILABLE IN USOCR DATABASE]	301/43		RAY CHARLES T
US 1804513 A	USPAT	19310512	Tillage implement [TEXT AVAILABLE IN USOCR DATABASE]	172/284		RAY CHARLES T
US 1764086 A	USPAT	19300617	Draft mechanism [TEXT AVAILABLE IN USOCR DATABASE]	280/442		RAY CHARLES T
US 1755074 A	USPAT	19300415	Filing cabinet for phonograph records [TEXT AVAILABLE IN USOCR DATABASE]	312/9.54	211/40	RAY CHARLES T et al.
US 1754435 A	USPAT	19300415	Filing cabinet for phonograph records [TEXT AVAILABLE IN USOCR DATABASE]	312/9.54	190/16; 312/234.2	RAY CHARLES T et al.
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US 1704340 A	USPAT	19290305	Plow [TEXT AVAILABLE IN USOCR DATABASE]	172/402		RAY CHARLES T
US 1704339 A	USPAT	19290305	Harrow [TEXT AVAILABLE IN USOCR DATABASE]	172/521	172/578; 172/595	RAY CHARLES T
US 1670521 A	USPAT	19280522	Harrow [TEXT AVAILABLE IN USOCR	403/395		RAY CHARLES T

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US 1643519 A	USPAT	19270927	Tillage implement [TEXT AVAILABLE IN USOCR DATABASE]	172/404	172/405; 172/406; 172/410	RAY CHARLES T
US 1613411 A	USPAT	19270104	Fertilizer distributor [TEXT AVAILABLE IN USOCR DATABASE]	111/76		RAY CHARLES T
US 1606261 A	USPAT	19261109	Tillage implement [TEXT AVAILABLE IN USOCR DATABASE]	172/398	172/421; 172/483	RAY CHARLES T
US 1606132 A	USPAT	19261109	Plow [TEXT AVAILABLE IN USOCR DATABASE]	172/293	172/402; 172/410	RAY CHARLES T
US 1586381 A	USPAT	19260525	Cultivator [TEXT AVAILABLE IN USOCR DATABASE]	172/334		RAY CHARLES T
US 1585510 A	USPAT	19260518	Middle-breaker plow [TEXT AVAILABLE IN USOCR DATABASE]	172/361	172/190; 172/724; 172/729	RAY CHARLES T
US 1514929 A	USPAT	19241111	Machine for gathering multiple sheets [TEXT AVAILABLE IN USOCR DATABASE]	270/58.01	271/9.01	RAY CHARLES L
US 1496999 A	USPAT	19240610	Tractor harvester transmission [TEXT AVAILABLE IN USOCR DATABASE]	56/12.6	180/14.4; 180/53.1; 56/15.3; 74/15.69	RAY CHARLES H
US 1443548 A	USPAT	19230130	Tractor-harvester transmission [TEXT AVAILABLE IN USOCR	180/14.4	180/53.1; 56/16.3	RAY CHARLES H

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US 1412258 A	USPAT	19220411	Detachable plowshare-securing means [TEXT AVAILABLE IN USOCR DATABASE]	172/751		RAY CHARLES T
US 1412135 A	USPAT	19220411	Ridge breaker [TEXT AVAILABLE IN USOCR DATABASE]	172/394	172/583	RAY CHARLES T